G R. S. 59]

3=10 240.

GENERAL AND REVENUE SECRETARIAT.

1910-11
(Genl. Misc.)

File No. 246-10.

Serial Nos. 1-23 ✓

Papers Filed.

Month May 1913

SUBJECT.

Invention for 'Improvements in setting apparatus' by John Van Nostrand Dorr of Colorado

PREVIOUS REFERENCES.	LATER REFERENCES.
	G M. 536-16 G. M. 597-17 (163)

Krishnaswamy 10.6.13

G.R.S. 11] 1910 - 11

GENERAL AND REVENUE SECRETARIAT.

(Genl. misc.)

NOTES.

Reg. no 30 of 1910 11

File No. 246

FILE HEADING.

Invention for "Improvements in Settling Apparatus" by John Van Nostrand Dorr of Colorado.

From

Messrs Ramsay & Son.

No. . Dated 20.3.11 Received 24.3.11

Diary No. 4084	Enclos. 2	Spare Copies.	Serial No. 1

BRIEF ABSTRACT OF LETTER.

Forwarding the applⁿ. of John Van Nostrand Dorr of Colorado for leave to file a specification of an invention for "Improvements in Settling Apparatus" & produce a Power of Attorney in Re.

NOTES AND ORDERS.

1 3 fls are subt. - Orders are solicited whether the report is required from the Chief Engr. or State Geologist (125). 28.3.11 Hmc (B).

2 To State Geologist.

3 Done [illegible] 29.3.11

NOTES—First sheet.

GPB—30,000—20-3-06.

G. R. S. 12]
General and Revenue Secretariat.

(2)

Gen File No. 246 of 1910.

Serial No.	
2	To the Asstt Compt: in ch: of State Treasury. No. Cs 5808 dated 5th April 1911. Forwards Rs 10/- rec'd with the above request- acknowledgment.
3	To the Supdt of Stamps. No. Cs 5809 dated 5th April 1911 Forwards the Power-of-Attorney rec'd with Re 1, and also Re 1/- and requests that it maybe stamped with a General Stamp of the value of Re 1/- and also forwards Re 1/-.
4	To the State Geologist. No. Cs 5810 dated 5th April 1911 Forwards for report the Specifn rec'd with Re 1.
5	From the Asst Compt in charge S.H. Try. No 4458 of 8.4.11. Acknowledges the receipt of the sum of Rs 10. Sent with no 2.
6	From the Supdt of Stamps. 158 of 10.4.11 Returns the Power of Attorney duly stamped. 4 Draft acknowledging sent. Rs (125) 12.4.11 Issued 5 12/4/11
7	To the Supdt of Stamps. No. Cs 5999 of 19-4-11. Acknowledges the receipt of the above.
8	From the State Geologist No. 2125 of 28.4.1911. With refce to 4 forwards copy of letter no 650 2125 of 24.4.11 from the Chief Insp^r of Mines recommending the grant of leave to file a specification of the inventn.

4334

5

NOTE—Contn. sheet.

GPB—50,000—12-8-10

Serial No.

6 ~~Drafts sent~~ Perhaps inf^n may be obtained first as to whether Pat^t asked for in the United Kingdom has been granted.

~~5-5-1911~~

Subd with a draft enquiring.

VS (1/5) VS.41
5-5-1911

9/5/11

7 To Messrs Remfry & Son, Calcutta. No. C. 6554 dt 12-5-11.

With refce to 8 cl 1, requests to be furnished with a copy of the orders, if any, passed on a similar applⁿ made in the United Kingdom.

10 From the same. Letter dt 6. 12. 11.

In reply to the above, states that the corresponding British application is not yet completed and that the British Patent Office have notified their willingness "to accept" the Specifn and requests that the leave applied for to file the Specifn in Mysore may be granted.

7 Perhaps Messrs Remfry and Son say that the inventr is applying for patents first in countries other than the United Kingdom and that after they are obtained, he would apply in the United Kingdom.

8 Subd with a draft for approval a other orders.

8A 99 VS.41
15-12-11

9 Issued 16.12.11.

NOTE—Contn. sheet.

G.R.S. 12]
General and Revenue Secretariat.

G. M File No. 246. of 1910 11

Serial No.	
11	To. Messrs Rempfry & Son. No. G. 3546 & 23.12.11. ~~States~~ Requests that after the corresponding specification has been actually accepted in the United Kingdom, an authenticated copy of the order may be obtained and sent to this Office for reference.
12	From Messrs Rempfry & Son, & 20. 2. 13. In compliance with the above, forwards a Certified Copy of the British Printed Specification. 10 In SL 8, the Chief Inspector of Mines has already given his opinion that the leave applied for for filing the specification may be granted. 11 Drafts granting the leave are accordingly put up for approval or other orders. 28.2.13 12 Issue 1.3.13.
13.	To. Mr. John Von Nostrand Dorr of Equitable Building, Denver, Colorado U.S.A. G. 5446 & 14-3-13. Authorizes him to file a specification of the invention referred to.
14.	To. Messrs Rempfry & Son Calcutta G. 5447 & 14-3-13. Forwards the above for communication to the party concerned

NOTE—Contn. sheet.

GPB—50,000—12-8-10

[G. R. S. 12]

General and Revenue Secretariat.

File No. 246 of 1910

Serial No.	
15	From Messrs Remfry & Son, Calcutta. D 4.4.13 Forwards Rs 30/- and 4 Copies of the specn and request the filing of the specification. 13 The prescribed fee of Rs 30/- has been received, and the application, having been made within 6 months from the date of granting authority to file the specification (viz 14th March 1913) is in time. 14 The usual drafts are submitted. The certificate, both at foot of the G.O. granting authority to file the specification, requires signature. SA 99 16/4/13 HB Issue SP 18/4
16	To The Compiler. G. 671 D 30.4.13. Notifies the filing of the specification referred to
17.	To Messrs Remfry & Son G. 6712 D 30.4.13. Forwards Copy of the above for communication to the party concerned & returns SL 13, with the certificate at foot duly filled in & signed.
18.	To The Chief Engineer, Supdt Govt museum & the State Geologist. G. 6713-15 D 30-4-13. Forwards a copy of the specification received with SL 15 for record in their Offices & requests acknowledgment

HA

NOTE—Contn. sheet.

GPE—65,000—17-C-12.

General and Revenue Secretariat.

G.m File No. 246 of 1910-11

G123 136 6333

Serial No.	
19	To. The D. C. Ivy Department, Bangalore G 67/68 of 30-4-13. Forwards Rs 30/- received with Sl 15 of Requests aadet
20	From the above. No. 248 of 2. 5-13 Acknowledges the receipt of the amount forwarded with the above.
21	From the State Geologist. No. 2710 of 1. 5-13
22	" Supdt, Govt Museum. 283 of 3. 5. 13 Acknowledge the receipt of the Specfn forwarded with Sl 18. A reply to Sl. 18 ~~xxx~~ from the Chief Engineer maybe awaited. Subd 8/5/13 BR JR 8/5
23	From the Chief Engineer. No. 3629 of 9-5-13. Acknowledges the receipt of the specification forwarded with Sl 18. The correspondence may now be filed. Subd 21.5.13 BR JR 21/5

NOTE—Contn. sheet.

GPE—65,000—17-C-12.

D 4087/9

Ph 246-10-1

V Vq. 24/3 85.

To

THE SECRETARY TO THE GOVERNMENT OF ~~INDIA,~~ MYSORE.
Genl. & Rev. Depts.
~~DEPARTMENT OF REVENUE AND AGRICULTURE (PATENTS)~~.
Bangalore, Mysore.

From

REMFRY & SON,

Solicitors and Patent Agents,

CALCUTTA.

Dated Calcutta, 20th March 11.

Sir,

We have the honour to forward herewith an Application of JOHN VAN NOSTRAND DOOR, of Equitable Building, Denver, Colorado United States of America, Metallurgical Engineer, for leave to file a Specification under Part I of the Mysore Inventions & Design Regulation, 1894, in respect of an invention for "IMPROVEMENTS IN SETTLING APPARATUS", and solicit the favour of your submitting the same for the orders of H.H. the Dewan of Mysore.

The Power of Attorney under which we are acting is sent herewith, and we solicit the favour of your having same stamped Rs1/-. A P.O.O. for Rs11/- is sent today.

No corresponding Application has been made for a Patent in British India.

We have the honour to be,

Sir,

Your very obedient servants,

REMFRY & SON.

per

Amount of Order Rs. 11/- As. —

Name of Remitter Remfry & Son.

Application filing fee and stamping P/a of J.V.N.Dowr. See letter of 20th inst.

REMFRY & SON.

Rs. 11/

24/3/11

To B. V

25/3/11

Money & Cover upon
Ack: To Br K
10/4

G.R.S. 26]

For File No. 246-10
Serial No. 2

30/3/11

Diary No. of letter replied to

No. G 5808 with R. 10 rupees -

General and Revenue Secretariat
( )
, *the* 19 .

To

The Asst Comptr in charge
S.H. Dy.

Date of issue 5. 4. 11

Signed by M. B. Ramaswamayya -

Has the honor to forward herewith for credit into the Treasury a sum of Rs 10 received from messrs. Ramsay Son, Calcutta, being the application fee in respect of an invention for "Improvements in Settling Apparatus" by Mr John Van Nostrand Dunn of Equitable Buildings, Denver, Colorado. to request the favour of an acknt.

over.

29.3.11
Dr Cts Dy

SUBJECT.

bus.

G.R.S. 26j

30/3/14

Diary No. of letter replied to

General and Revenue Secretariat

( )

, the 19 .

Date of issue 5. 4. 11

Signed by Sd/- S Ramaswamayya

Gen File No. 246-10

Serial No. 3

No. G 5809 Genl + one if

To

The Supdt of Stamps.

Has the honor to forward herewith a Power of Attorney in favour constituting Messrs Remfry & Son of Calcutta as agents for John Van Nostrand in respect of his Dorr application for leave to file a specification of an invention for "Improvements in Settling Apparatus" and to request that the same may be duly stamped with a General Stamp of the value of Rupee One & returned

over.

SUBJECT.

to this office.

The ₹ stamp fee of Re 1 is also
remitted herewith.

Bro.

09-3-11

Jr Colt Secy

List of enclosures.

Copied by

Examined by

GPB—20,000—12-8-10

G.R.S. 26]

File No. 246-10

Serial No. 4

Diary No. of letter replied to

No. G 5810 Encl

General and Revenue Secretariat

( )

, the 19 .

To

The ~~Chief Engineer~~ or

" State Geologist

Date of issue 5 - 4 . 11

Signed by M B Ramaswamaya

Has the honor to forward for report under the Mysore Inventions & Designs Regn. herewith a copy of the specification of an invention for "Improvements in Settling Apparatus" by Mr. John Van Nostrand Dorr of Equitable Building Denver, Colorado U.S.A., Metallurgical Engineer.

B.o.

29-3-11

In G/Hs Secy

over.

SUBJECT.

V

D 4332
Q

Q.h. 246. 10. 5

No. 1118

Rs. 10/-

Received from The Secretary to the Government of Mysore, General and Revenue Department.

the sum of Rupees Ten only, being the fee received from Messrs Rempry & Son, Calcutta, in respect of an invention for "Improvements in Setting of Pyrometers" and credited this day. Vide, his No. Q 5808/Q.M. No 246-10 dated 5-4-11.

H. H. The Maharaja's State Huzur Treasury,
Bangalore the 8 April 19 11

Exd.

Hd. Acctt. ~~Bakshi.~~ Treasurer

~~By Order,~~

Asst Comptr in charge
~~Treasury Officer~~, State Huzur Treasury.

D 4334
5

V 1114 25 1911

G.h. 246-10-6

1911.

From J. Chokkanna Esquire B.A.,
Superintendent of Stamps
in Mysore.

To L. S. Balasundaram Iyer Esquire B.A.
Secretary to Govt. of Mysore, General and Revenue Departments.

Dated 10th
Despatched April 1911.
Received
General No. 158
No.

Enclosure ~~No.~~ One Stamped document.

Sir,

With reference to your docket No: G 5809
G. Dis. No: 246-10-3
dated 5th April 1911, I have the honor to return herewith duly stamped with one Rupee stamp the Power of Attorney received with the above, and to request an acknowledgment.

I have the honor to be,
Sir,
Your most Obedient Servant,

J. Chokkanna
Superintendent of Stamps
in Mysore.

GP.—75 rems—25-5-10

Exhibit "A" (2)

Power of Attorney.

In the matter of the Inventions and Designs Regulation, 1914, of the Government of Mysore, and in the matter of John Van Nostrand Dorr, of Equitable Building, Denver, Colorado, United States of America, Metallurgical Engineer, an Inventor.

I, the above named John Van Nostrand Dorr, do hereby retain, constitute and appoint Rupert Kempfy and Hamilton Greaves Kempfy both of 8/2 Hastings Street, Calcutta, as my agents and attorneys, to apply for and obtain from the Government of Mysore, and keep in force an Exclusive Privilege or Letters Patent for "Improvements in settling apparatus", and I authorise them to sign my name to such papers and writings, and do such acts regarding the same, including the appointment of a substitute or substitutes, as may be necessary or expedient.

Dated this 7th day of February 1911.

Signed Sealed and Delivered at New York, United States of America, in the presence of } John Van Nostrand Dorr

Anna Reeder Blake
95 Liberty St. New York City.
Secretary.

Ellen Mary Swift.
838 West End Avenue New York.
Decorator.

G.R.S. 26]

File No. 246-10
Serial No. 7

Diary No. of letter replied to

No. G 5999

General and Revenue Secretariat
( )
, *the* 19 .

To

The Supdt of Stamps.

Date of issue 19. 4. 11

Signed by Mr B Ramaswamaiya

Has the honor to acknowledge the receipt of the Power of Attorney returned duly stamped with ~~his~~ letter no 158 of 10th April 191

Bo.
12/4-11
Asst Secy

over.

SUBJECT.

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT.

Dated Bangalore, 28th April 1911.

No. 2125
Encls. 2

D. 4629

G.M. 246-10-8

From

E. W. WETHERELL, Esq., A.R.C.S., F.R.P.S.L., F.G.S.,
Offg. State Geologist in Mysore.

To

C.S. Balasundaram Iyer, Esquire, B.A.,
Offg. Secretary to the Government of His Highness
the Maharaja of Mysore, Genl. and Rev. Depts.

Sir,

In reply to your letter No. G.5810/G.M. 246-10-4 dated 5th April 1911, forwarding for enquiry and report the application from Mr. John Van Nostrand Dorr of Equitable Building, Denver, Colorado, United States of America, for leave to file a specification of an invention for "Improvements in settling Apparatus", I have the honour to forward herewith a copy of letter No. 650/1910-11 dated 24th April 1911, received from the Offg. Chief Inspector of Mines on the subject.

2. The specification is herewith returned.

I have the honour to be,
Sir,
Your most obedient servant,

E. W. Wetherell

Offg. State Geologist in Mysore.

GPB—480—4-1-11

Enclosure to Sl (8)

Letter No. 650/1910-11 dated 24th April 1911, from the Offg. Chief Inspector of Mines in Mysore, to the Offg. Secretary to the Government of H.H. the Maharaja of Mysore, Geological Dept

---

In reference to your No. 2027 dated 11th April 1911, forwarding for report a specification of an invention for "Improvements in settling Apparatus" by Mr. John Van Nostrand Dorr of Equitable Building, Denver, Colorado, United States of America I have the honour to state that I have examined the same and that leave may be given to file the specification under Part I of the Mysore Inventions and Designs Regulation, 1894.

2. As far as I am aware, the invention does not infringe the rights of any existing patents, consisting as it does of a simple piece of mechanism adapted to control the agitation of thickened liquid and the discharge of both this and the settled material through an orifice at the bottom of the tank. By means of this mechanism warning can be given to prevent damage to the machinery when the resistance of the thickened liquid becomes too great.

3. The enclosures received with your above mentioned No. 2027 are herewith returned.

Copy

K. Srikantaiah

Offg. State Geologist in Mysore.

27.4.1911

Enclosure 1 (8)

To the Dewan of Mysore.

The Application of John Van Nostrand Dorr, of Equitable Building, Denver, Colorado, United States of America, Metallurgical Engineer, for leave to file a Specification under Part I of the Mysore Inventions and Designs Regulation, 1894.

1. The Applicant is in possession of an invention for "Improvements in settling apparatus"; he is the inventor thereof, and, to the best of his information and belief, the invention is new within the meaning of Part I of the Mysore Inventions and Designs Regulation, 1894, and no circumstance exists which, if the Applicant is authorised to file a Specification, and files it in accordance with that Part, will disentitle him to an Exclusive Privilege thereunder in respect of the invention.

The Applicant has applied for a Patent in the United Kingdom in respect of the invention with Complete Specification No. 29383, dated the 17th day of December 1910, see Illustrated Official Journal (Patents) No. 11144, page 2145.

2. The following is a description of the invention :—

1.

This invention relates to improvements in settling apparatus comprising a settling tank, means for delivering to it liquid having suspended in it more or less finely divided material and mechanism adapted to cause the settled material and thickened liquid at the bottom of the tank to move towards a discharge orifice therein.

It will be readily understood that it is difficult if not impossible to know how such an apparatus is working, that is, what is the consistency of the thickened liquid at the bottom of the tank and what is the resistance offered by it to the mechanism referred to above. Consequently it frequently happens that some part of the mechanism gets broken or bent which results in serious loss due not only to the repairs rendered necessary but also to the apparatus being thrown out of work.

The object of the present invention is to provide a machine of this nature with means whereby the resistance may be roughly ascertained and by which warning shall be given when such damage is likely to occur in order that the delivery of liquid thereto may be checked, the thickened liquid be more quickly drawn off through the discharge orifice, or other precaution be taken and so accident may be avoided.

With this object I interpose in the gearing, by which motion is transmitted to the mechanism referred to, a spring and with such spring I may arrange an indicator by which the movement of the spring and

consequently the resistance to the mechanism can be ascertained or an alarm which will be actuated when the spring is unduly compressed but before breakage is likely to occur. Obviously both indicator and alarm may be used if desired.

Figure 1 of the accompanying drawing shows one form of such apparatus which is used for allowing sand, slimes or other material to settle out from the liquid in which they are held in suspension.

This apparatus consists of a tank a in which is a vertical shaft b carrying arms c provided with blades d set at such an angle that as the shaft is slowly rotated they cause the slime or thickened liquid at the bottom of the tank to move towards the outlet e.

Figures 2 and 3 are a side elevation and underside view of an arrangement in accordance with this invention.

f is a worm wheel rotated by a worm g and carried by a sleeve f' loose on the shaft b. To this wheel is fitted a lug f^2. h is an arm fast on the shaft and provided with a stiff spring i so arranged that when the wheel f turns in the direction of the arrow the lug f^2 bears against the spring, compresses it more or less and rotates the arm h and therefore the shaft. Marks may be made upon the arm by which the compression of the spring may be noted or any suitable indicator or pointer may be carried by the spring, or the lug f^2 may

have a pointer by means of which its position relative to the arm h may be seen.

The arm h carries an electric bell and battery connected to the spring and to a contact k beneath the spring so that when the resistance is dangerously large the spring is so far compressed as to cause the bell to ring.

It is obvious that my invention applies equally to an apparatus in which the stirrer is driven from beneath.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:-

1. Settling apparatus of the type referred to in which the drive takes place through a spring substantially as and for the purpose described.

2. Settling apparatus as claimed in claim 1 and having means whereby the movement of the spring may be noted substantially as described.

3. Settling apparatus as claimed in claim 1 and having an alarm adapted to be actuated when the spring is unduly compressed substantially as described.

4. Settling apparatus substantially as described and illustrated.

3. The Applicant, therefore, applies for leave to file a Specification of the invention pursuant to Part I of the Mysore Inventions and Designs Regulation 1894.

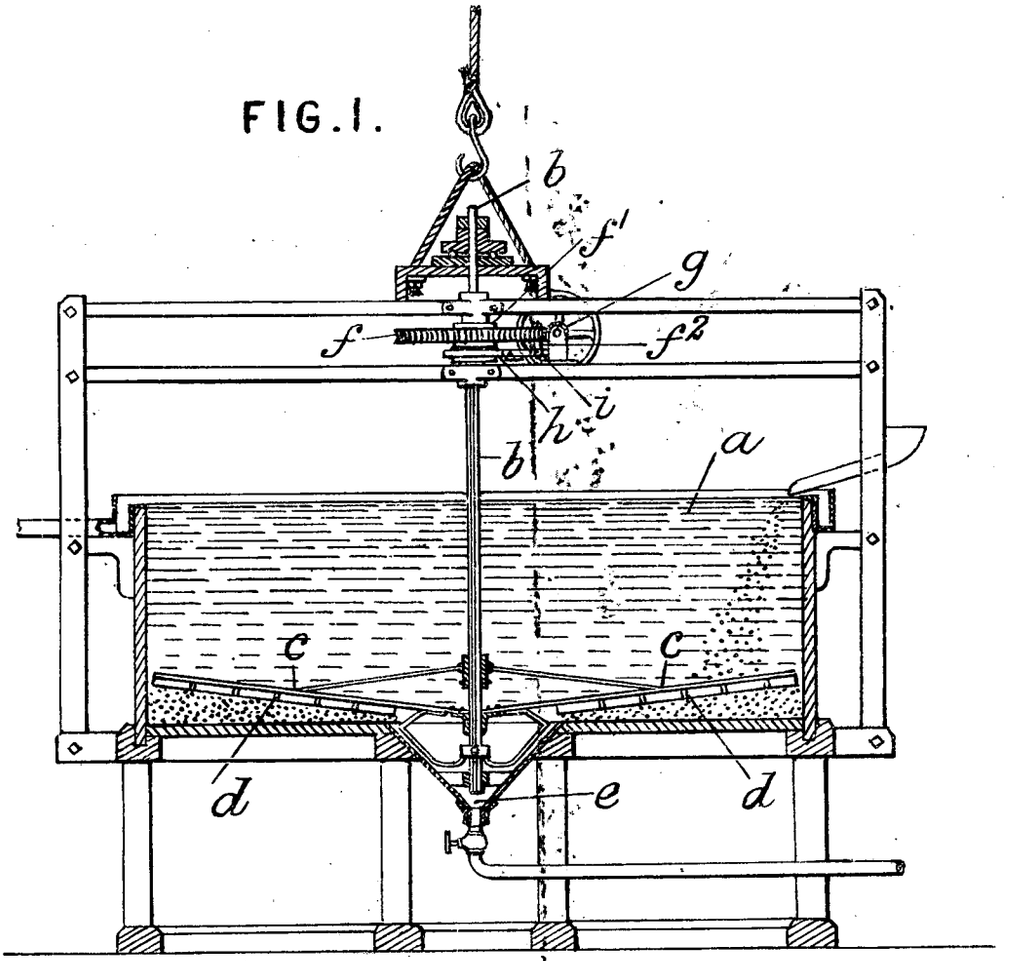
John Van Nostrand Dorr

I, the Applicant above named, do declare that the facts stated in the above Application are true to my knowledge, except as to matters stated on information and belief, and as to those matters I believe them to be true.

Dated this 7th day of February 1911.

John Van Nostrand Dorr

FIG. 1.



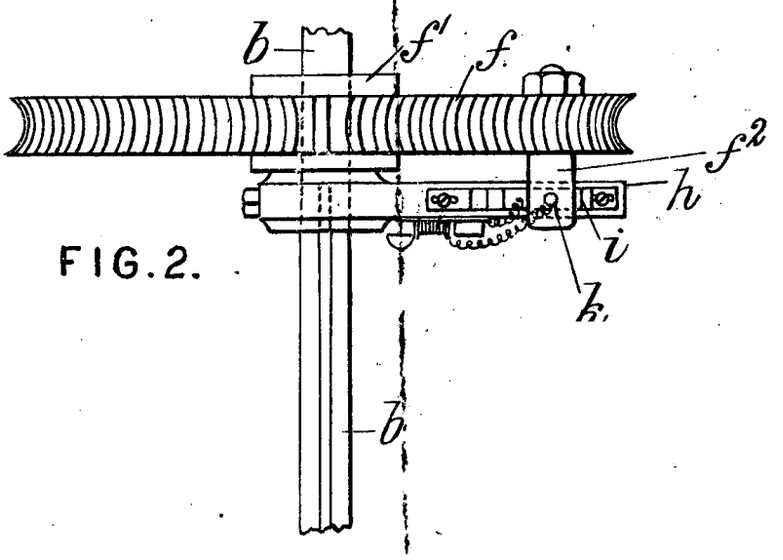
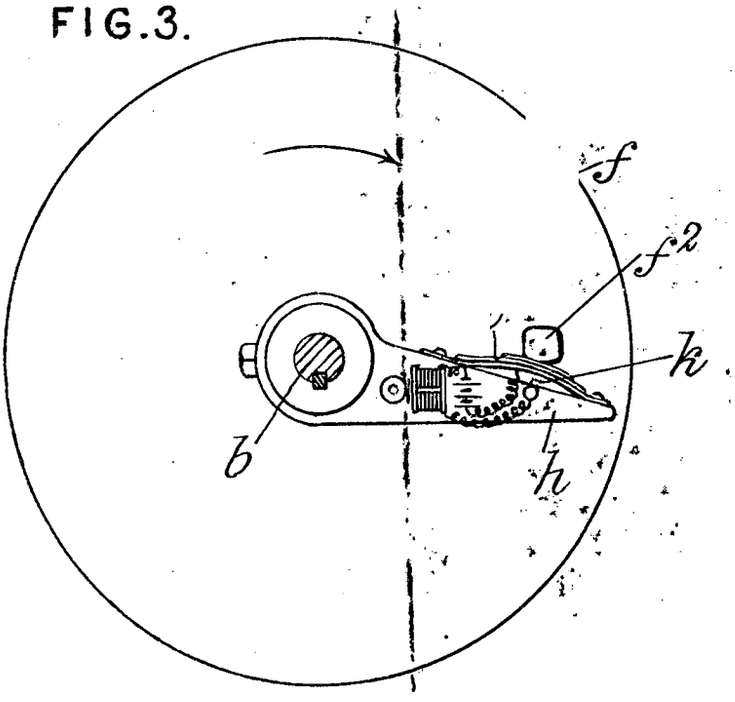


FIG. 2.

FIG. 3.



629/
5-12-50

G.R.S. 26]

Gen File No. 246-10
Serial No. 9

Diary No. of letter replied to

No. G 6554

General and Revenue Secretariat
( )
, the 19 .

To
Messrs Remfry & Sun.
Solicitors & Patent Agents
8. Hastings street, Calcutta.

Date of issue 12. 5 - 11

Signed by Mr B Ramaswamaiya

Gentlemen,

With reference to your letter no of 20-3-1911 forwarding the application of John Van Nostrand Dorr for leave to file a specification of his invention for "Improvements in settling apparatus", I am directed to enquire if whether any orders have been passed on a similar application made in the

over.

SUBJECT.

ACM
11/8/11

United Kingdom and of so

o request to be ~~forwarded~~ furnished

with a copy of the order.

Thank u.

2 Colts Secy

V.S. 41

List of enclosures,

Copied by

Examined by

GPB—20,000—12-8-10

DIARY No. 2428

19/1 -19/2

SECTION Gen: Mis

FILE No. 246 of 1910-11

SERIAL No. 10

To

THE SECRETARY TO THE GOVERNMENT OF ~~INDIA~~, Mysore.

~~DEPARTMENT OF REVENUE AND AGRICULTURE (PATENTS).~~

General and Revenue Departments,

Bangalore.

From

REMFRY & SON,

Solicitors and Patent Agents,

CALCUTTA.

Dated Calcutta, 6th December 1911.

Sir,

re J.V.N.Dorr (Mysore)

Referring to your letter dated 12th May 1911 enquiring whether any Orders have been passed on a British Application corresponding with the above Mysore Application forwarded with our letter of 20th March last and requesting that if so a copy of such Orders be furnished to your office, we beg to inform you that the corresponding British Application (No.29383 of 1910) is not yet completed as the client has had the Acceptance delayed in order to avoid publication. We are informed that he is applying for Patents in some countries where the previous publication of the British Specification would be a bar to obtaining a valid Patent.

We are also informed that the British Patent Office have notified their willingness to "accept" the Specification and we shall esteem it a favour if you will grant the Order of leave to file a Specification in Mysore.

We have the honour to be,

Sir,

Your very obedient servants,

F.M.D.

G.R.S. 26]

Gm File No. 246-11

Serial No, 11

Diary No. of letter replied to 2428

No. G 3546

General and Revenue Secretariat

( )

, the 19 .

23. 12. 1911

Signed by Mr Ramaswamayya

To

Messrs Remfry & Son,

Solicitors and Patent Agents,

Calcutta.

Gentlemen,

With reference to your letter of the 6th December 1911, applying for leave to file a specification of an invention for "Improvements in Setting Apparatus" by John Van Nostrand Dorr of Colorado, I am directed to request that after the corresponding specification has been actually accepted

over.

SUBJECT.

in the United Kingdom, An authenticated copy of the Order granting the appln may be obtained and sent to this office for ~~[illegible]~~ refee in connection with the disposal of your application.

I have to,

for [illegible]
for Offg Secretary

VS.41.

List of enclosures,

Copied by

Examined by

GPB—10,000—28-2-11.

GENERAL.

4615

1912-1913
SECTION Gen : Mis
FILE No. 246 of 1910-11

To

THE ~~PATENT~~ SECRETARY, TO THE GOVERNMENT OF MYSORE,
~~PATENT OFFICE~~, GENL. & REV. DEPTS.,
~~CALCUTTA.~~ BANGALORE,
MYSORE.

FROM

REMFRY & SON,
SOLICITORS AND PATENT AGENTS,
CALCUTTA.

Dated CALCUTTA, the 20th February 1913.

Sir,

Dept. P. File Lr. M.
FILE INDICATION.
Mysore Pats.

re J.V.N.DORR. (MYSORE) Case 1.

In compliance with the request contained in your Letter No. G 6546/G.M 546-10-11 dated 23rd December 1911, we beg to submit herewith a Certified Copy of the British Printed Specification No. 29383/10 in this matter, and solicit the favour of early orders upon the Application.

We have the honour to be,

Sir,

Your very obedient servants,

REMFRY & SON

1 Enclo.

I.M.B.

1,000.—17-3-11.

I certify this, including the Drawing forming part thereof, to be a true Copy.

30 JAN 1912

Acting for Comptroller.

N° 29,383 A.D. 1910

Date of Application, 17th Dec., 1910—Accepted, 14th Dec., 1911

COMPLETE SPECIFICATION.

Improvements in Settling Apparatus.

I, JOHN VAN NOSTRAND DORR, of Equitable Building, Denver, Colorado, United States of America, Metallurgical Engineer, at present residing at The Kingsley Hotel, Hart Street, Bloomsbury, London, W.C., do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to improvements in settling apparatus comprising a settling tank, means for delivering to it liquid having suspended in it more or less finely divided material, and mechanism adapted to cause the settled material and thickened liquid at the bottom of the tank to move towards a discharge orifice therein.

It will be readily understood that it is difficult if not impossible to know how such an apparatus is working, that is, what is the consistency of the thickened liquid at the bottom of the tank and what is the resistance offered by it to the mechanism referred to above. Consequently it frequently happens that some part of the mechanism gets broken or bent which results in serious loss due not only to the repairs rendered necessary but also to the apparatus being thrown out of work.

The object of the present invention is to provide a machine of this nature with means whereby the resistance may be roughly ascertained and by which warning shall be given when such damage is likely to occur in order that the delivery of liquid thereto may be checked, the thickened liquid be more quickly drawn off through the discharge orifice, or other precaution be taken and so accident may be avoided.

With this object I interpose in the gearing, by which motion is transmitted to the mechanism referred to, a spring and with such spring I arrange an indicator by which the compression of the spring can be ascertained, or an alarm which will be actuated when the spring is unduly compressed but before breakage is likely to occur. Obviously both indicator and alarm may be used if desired.

Figure 1 of the accompanying drawing shows one form of such apparatus which is used for allowing sand slimes or other material to settle out from the liquid in which they are held in suspension.

This apparatus consists of a tank a in which is a vertical shaft b carrying arms c provided with blades d set at such an angle that as the shaft is slowly rotated they cause the slime or thickened liquid at the bottom of the tank to move towards the outlet e.

Figures 2 and 3 are a side elevation and underside view of an arrangement in accordance with this invention.

f is a worm wheel rotated by a worm g and carried by a sleeve f^1 loose on the shaft b. To this wheel is fitted a lug f^2. h is an arm fast on the shaft and provided with a stiff spring i so arranged that when the wheel f turns in the direction of the arrow the lug f^2 bears against the spring, compresses it more or less and rotates the arm h and therefore the shaft. Marks may be made upon the arm by which the compression of the spring may be noted or any suitable indicator or pointer may be carried by the spring, or the lug f^2 may

Agents.

SOLICITORS & PATENT AGENTS REMFRY & SON. CALCUTTA

have a pointer by means of which its position relative to the arm *h* may be seen.

The arm *h* carries an electric bell and battery connected to the spring and to a contact *k* beneath the spring so that when the resistance is dangerously large, the spring is so far compressed as to cause the bell to ring.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. Settling apparatus of the type referred to in which the drive takes place through a spring substantially as and for the purpose described.
2. Settling apparatus as claimed in Claim 1 and having means whereby the compression of the spring may be noted substantially as described.
3. Settling apparatus as claimed in Claim 1 and having an alarm adapted to be actuated when the spring is unduly compressed substantially as described.
4. Settling apparatus substantially as described and illustrated.

Dated this Sixteenth day of December, 1910.

JOHN V. N. DORR.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1911.

A.D. 1910. Dec. 17. Nº 29,383.
DORR'S Complete Specification.

(1 SHEET)

[This Drawing is a reproduction of the Original on a reduced scale.]

Fig. 1.

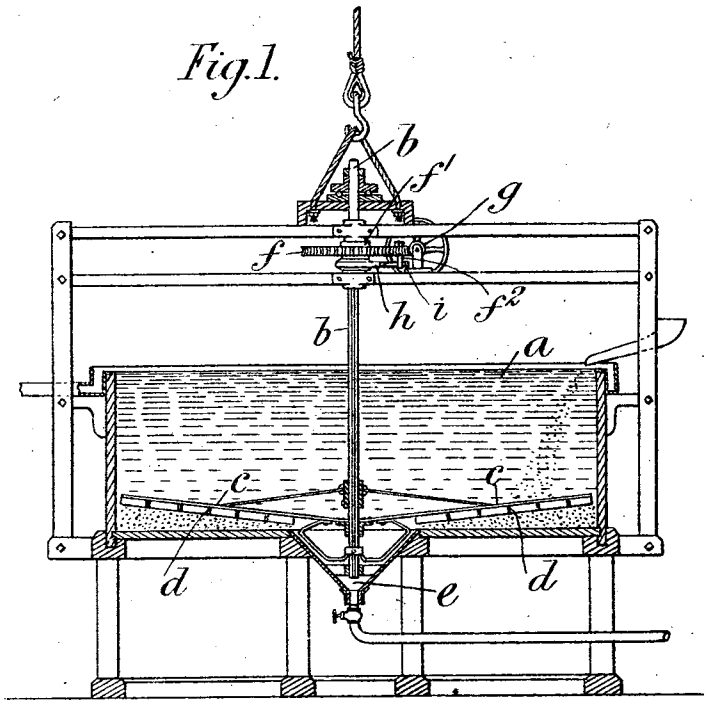


Fig. 2.

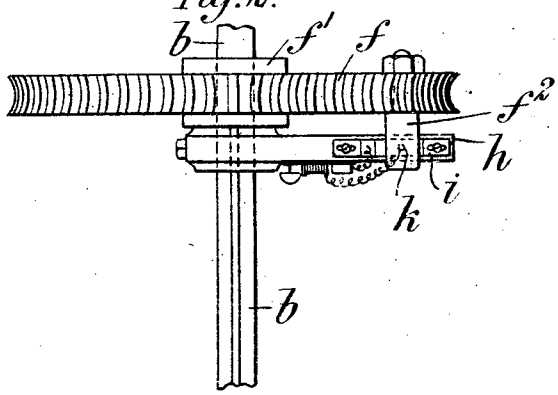
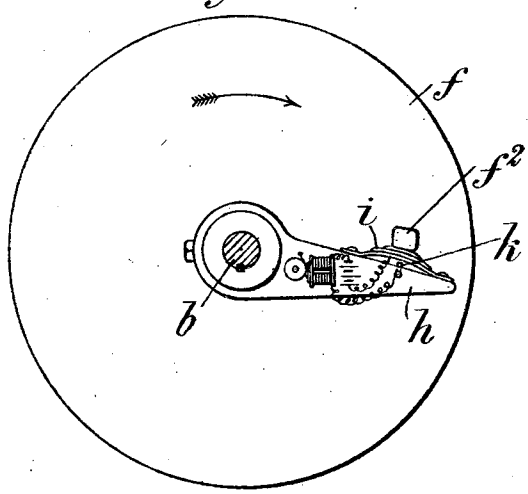


Fig. 3.



Malby&Sons, Photo-Litho.

Nil 2915 1/3/13

Nil G. 6446/G.M. 246-10-13

GOVERNMENT OF MYSORE

General Department.

Register No. 3 **of 1900-11**

Bangalore, the 14th March 1903.

WHEREAS an application, dated the 7th February 1911 and received on the 24th March 1911, has been submitted under Section 5 of the Mysore Inventions and Designs Regulation, 1894, by Mr. John Van Nostrand Dott of Equitable Building, Denver, Colorado, United States of America, Metallurgical Engineer,

(hereinafter referred to as "the applicant") for leave to file a specification of an invention for "Improvements in settling apparatus"

And whereas the applicant has duly complied with all the requirements of Section 5 of the said Regulation;

The Government of Mysore are pleased, under Section 6 of the said Regulation, to authorize the applicant to file a specification of the said invention in accordance with the provisions of the said Regulation.

ORDERED, that the applicant be, and he is hereby, informed accordingly.

By Order of the Government of Mysore,

Dft) 1.3.13.

for dft/s *Secretary to the Govt. of Mysore,*
Gen. and Rev. Depts.

Certified that the fees prescribed in the fourth schedule to the Mysore Inventions and Designs Regulation, 1894, in respect of the application for leave to file the said specification and of the filing thereof have been paid by the applicant, and that the specification hereinbefore described has been duly filed in accordance with the provisions of Section 8 of the said Regulation on this the Sixteenth day of April 1903.

Dft) SPK

for dft/s *Secretary to the Govt. of Mysore,*
Gen. and Rev. Depts.

(*Section 8 of the Inventions and Designs Regulation, 1894.*)

8. (1) If within six months from the date of an order under Section 6, Sub-Section (1), or within such further time, not exceeding three months, as the Government of Mysore, in its discretion, may, on cause shown to its satisfaction and on payment of the fee prescribed in that behalf in the fourth schedule, see fit to allow, the applicant causes a specification of his invention to be filed in manner by this Part required, and the fee prescribed in the fourth schedule in respect of the filing of the specification to be paid, the applicant shall, subject to the other provisions of this Part, be entitled to the exclusive privilege of making, selling and using the invention in the Territories of Mysore, and of authorizing others so to do, for a term of fourteen years from the date of the filing of the specification.

(2) But an exclusive privilege in respect of an invention of a new manufacture shall, notwithstanding anything in Sub-Section (1), cease, if the inventor fails to pay, within the time limited in that behalf by the fourth schedule, any fee prescribed in that schedule in respect of the continuance of the privilege.

(3) If, nevertheless, in any case, by accident, mistake, or inadvertence, an inventor fails to pay any such fee within the time so limited, he may apply to the Government of Mysore for an enlargement of the time for making the payment.

(4) Thereupon the Government of Mysore may enlarge the time accordingly, on payment of the fee prescribed in that behalf in the fourth schedule, and subject to the following conditions, namely :—

(*a*) the time for making a payment shall not in any case be enlarged for more than three months ; and

(*b*) if any suit is instituted in respect of an infringement of the exclusive privilege committed after a failure to make a payment within the time limited for the making thereof and before the enlargement of that time, the Court disposing of the suit may, if it thinks fit, refuse to award or give any damages in respect of the infringement.

GPB—500—7-409.

1/3/13

G.R.S. 26]

Gen File No. 246-10

Serial No. 1/7

Diary No. of letter replied to 4615

No. G. 5447 (E.1)

General and Revenue Secretariat

( )

, the 19 .

To

Messrs Remfry & Son,

Solicitors & Patent Agents,

Calcutta.

Date of issue 14-3-13

Signed by Mr B Ramaswami

Gentlemen,

With reference to correspondence ending with your letter of the 20th February 1913, I am directed to forward herewith G.O. No. 514 Gen 246-10 dated the 14th March 1913, authorising Mr. John Van Nostrand Dorr of Equitable Building, Denver, Colorado, U.S.A., to file a specification of his invention for

over.

SUBJECT.

"Improvements in setting apparatus
and to request that the fact may
be communicated to the party
concerned.

I have &c,-

1.3.23
For the Secretary

List of enclosures,

Copied by 3/3.

Examined by

GPB—10,000—28-2-11.

GENERAL. V 8/4 2m

D-5519
9

REGISTERED.

To

THE ~~PATENT~~ SECRETARY, TO THE GOVERNMENT OF MYSORE,
~~PATENT OFFICE~~, GENL. & REV. DEPTS.,
~~CALCUTTA~~. BANGALORE,
MYSORE.

FROM

REMFRY & SON,
SOLICITORS AND PATENT AGENTS,
CALCUTTA.

Dated CALCUTTA, the 4th April 1913.

Sir,

DIARY No. 5519

1912-1913
SECTION Gen. Mis
No. 240 of 1910-11
Vol. No. 15

Dept. P. File Lr. M.
FILE INDICATION.
Mysore Pats.

re J. V. N. DORR. (CASE 1) MYSORE No.3 of 10-11.

Pursuant to the Order granting leave in this matter dated 14th March 1913, Register No. 3 of 1910-11, we have the honour to forward herewith 4 copies of the Specification of JOHN VAN NOSTRAND DORR of Equitable Building, Denver, Colorado, United States of America, Metallurgical Engineer, in respect of his Invention for "IMPROVEMENTS IN SETTLING APPARATUS".

The above mentioned Order is enclosed and we solicit the favour of your filling to the Certificate at foot thereof and having same signed.

A Post Office Order for Rs. 30/- is sent to-day.

We have the honour to name our Office in Calcutta as the Address for Service under the Act.

We have the honour to be,
Sir,
Your very obedient servants,

Bk.Post.
4 Specns.

REMFRY & SON

I.M.B.

1,000.—17-3-11.

MYSORE GOVT. GEN. & REV. SECRETARIAT,

No. G. 671/1 *Dated Bangalore, 30th April 1913*

G.m. 246-10-16

X Published on page 487 of Part I of the Gazette dt. 1-5-13.

NOTIFICATION.

(PATENT.)

The following specification of an invention has been filed in acc... Sections 8, 9, 10 and 11 of Regulation XI of 1894 (The Inventions and Designs Regulations) and is open to inspection at the Mysore Government Secretariat on application to the Secretary to the Government of His Highness the Maharaja of Mysore, General and Revenue Departments, and on payment of a fee of one Rupee.

By Mr John Van Rostrand Dorr of Equitable Building, Denver, Colorado, United States of America Metallurgical Engineer

Improvements in Settling Apparatus

By Order,

Secretary.

To

The Compiler, *Mysore Gazette*, for publication.

19/4

No. G. 6712 (E. 2)
G.m 246-10-17

MYSORE GOVT. GEN. & REV. SECRETARIAT,
Dated Bangalore 30th April 1913.

From

The Secretary to the Government of H. H. the Maharaja of Mysore,
General and Revenue Departments.

To

Messrs Remfry & Son,
Solicitors and Patent Agents,
Calcutta.

Sir,

With reference to your letter dated the 4th April 1913, I am directed to forward copy of a Notification No. G 6711/G.m. 246-12-18 dated 30th April 1913 issued by this Government in regard to the invention filed by you under Regulation XI of 1894 (The Inventions and Designs Regulations.) and Request that the same may be communicated to the party concerned.

The order granting permission to file specification is herewith returned, with the certificate at foot, duly filled in and signed.

I have the honor to be,
Sir,
Your most obedient servant,

for Secretary.

21/4/13

19/4

G.R.S. 29A]

19 . 3

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To (1) The State Geologist in Mysore.
(2) The Supdt, Govt. Museum.
(3) The Chief Engineer of Mysore

Dated

Despatched 30-4-13

Received

General No. G. 6713-15
No. G.M 246-10-18
Enclosure No. / Each.

Has the honor to forward herewith for record in his office copy of a specification of an invention for "Improvements in Settling apparatus" by Mr John Van Nostrand Dorr, of Equitable Building, Denver, Colorado, U.S.A., and to request the favor of an acknowledgment.

By order,

Sd

for A.S. Secretary.

GPB—20,000—24-10-10.

Sd 4/13

Printing & cover supplied.

2/5/13

G.R.S. 29A]

19 .

From

Secy. to the Govt. of His Highness
The Maharaja of Mysore,
Genl. and Rev. Dept.

To
The Deputy Commissioner,
Treasury Deptt,

Dated Bangalore.

Despatched 30-4-13.

Received

General No. 96716

No. Gm. 246-10-19

Enclosure No. with Rs 30/-

Has the honor to forward herewith a sum of Rs 30/- (thirty only) received from Messrs Rempf & Son, Calcutta, being the fee payable under Schedule IV Cl(i) of the Mysore Inventions & Designs Regulation No. XI of 1894, for filing a Specification of an invention for "Improvements in setting apparatus" by Mr. John Van Nostrand Dorr of Equitable Building, Denver Colorado, U. S. A, and to request the favor of an acknowledgment for the receipt of the amount.

By order,

For the Secre

GPB—20,000—24-10-10.

Govt. Press of 1910.
8 C 20

DIARY No. 6123

Rs. 35/-

Book No. 1044

No. 18

Bengal Treasury dated 2-5-13

Received from Secretary Municipal Engineer Govt. & Revenue

Rupees Thirty-five

Annas —and Pies—

being on account of

fee in respect of Inventions in

Jarkhis document of 6716 & 3rd 13

B.E. Mukerji

In charge of Treasury.

Noted & rec'd. by Br. V.

III

4/5/13

V 3/5 [illegible]

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED BANGALORE,...1st May 1913.....19 .

No. 2710

DIARY No. 6136

1912-1913
SECTION [illegible]
FILE No. 246 of 1910
[illegible] 129

FROM

DR. W. F. SMEETH, M.A., D.Sc., A.R.S.M., etc.,
State Geologist in Mysore.

To

K.R. Srinivasa Iyengar, Esquire, M.A.,
Offg: Secretary to the Government of His Highness
the Maharaja of Mysore, General and Revenue
Departments, Bangalore.

SIR,

I have the honour to acknowledge, with thanks, the receipt of the copy of the Specification of an Invention for "Improvements in settling apparatus" by Mr. John Van Nostrand Dorr of Equitable Building, Denver, Colorado, United States of America, forwarded with your docket No. G 6713-5/ G.M. 246-10-18, dated the 30th April 1913.

I have the honour to be,

Sir,

Your most obedient servant;

[signature]
Registrar
for State Geologist in Mysore.

GPB-300-28-3-13

No. 283

OFFICE OF ECONOMIC BOTANIST,
SUPERINTENDENT, MYSORE GOVERNMENT MUSEUM,
Bangalore, dated 1st/3rd May 1913.

DIARY No. 6165

FROM
1912-1913
SECTION Gen: mis
FILE No. 246 of 1910-11
SERIAL No. 22
TO

G. H. KRUMBIEGEL, ESQ., F.R.H.S.,
Economic Botanist,
Superintendent, Mysore Govt. Museum,
Bangalore.

The Secretary to the Govt. of H.H.
the Maharaja of Mysore.
Gen. and Rev. Depts.

Sir,

I have the honor to acknowledge receipt of a copy of a Specification of an invention for "Improvements in settling-apparatus" by Mr. J. V. M. Dorr, Colorado, U.S.A., forwarded with your No. G.6713.5/G.M. 246.10.18, dated the 30th April 1913.

I have the honor to be,
Sir,
Your most obedient servant
G. H. Krumbiegel
Superintendent
Govt. Museum

1912-13

From

G. H. KRUMBIEGEL, Esq., F.R.H.S.,
Economic Botanist,
Supt., Mysore Govt. Museum,
Bangalore.

To

The Secretary to Govt.
H. H. the Maharajah's Mys
Gen and Rev. Dep

Dated 3rd May 1913

Despatched — .. ———

Received

General No. 258
No.

Enclosure No. ..

Acknowledging receip
of a copy of a Specificatio
of an invention for "Improve
in Settling Apparatus" by
J. V. M. Dorr, Colorado. -

GPB—5,75,000—6-4-12

V 125 GA 645

No. 3629.

MYSORE P. W. DEPARTMENT,

CENTRAL OFFICE.

Bangalore, 9th May *1913*.

SECRETARY'S OFFICE No. 6335
1912-1913
SECTION Gen. Mis.
FILE No. 246 of 1910-11
ITEM No. 23

From

KARPUR SHRINIVASRAV, ESQ., B.Sc., L.C.E.,
Offg. Chief Engineer of Mysore,
Bangalore.

To

K.R.Srinivasaiengar, Esq.; M.A.,
Offg: Secretary to the Government of His Highness
the Maharaja of Mysore, Gen. & Rev. Departments,
B a n g a l o r e.

Sir,

I have the honor to acknowledge, with thanks, the receipt of a copy of the specification of an invention for "Improvements in settling apparatus" by Mr.John Van Nostrand Dorr of Equitable Building, Denver, Colorado, America, forwarded with your memo No.G.6713-15/G.M.246-10-18 dated the 30th April 1913.

I have the honor to be,
S i r,
Your most obedient servant,

K. O. Srinivasaiengar

ARA.

For Offg: Chief Engineer of Mysor

MYSORE P. W. DEPARTMENT.

No.

From

THE CHIEF ENGINEER OF MYSORE,
Bangalore

To

Dated Bangalore
:
Despatched

Enclosure No.

SUBJECT.

GPB 2,000- 1-42